

IN THE CLAIMS:

Please add claim 46 and cancel claims 27, 29, 43 and 45, without prejudice or disclaimer, as follows:

Claims 1-2 (Canceled).

3. (Previously Presented) A method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to a radio connection and during operation between them either party may send a power control command, which will change the transmission power of the other party, the method comprising:

identifying a change in data transfer of the first party by the second party; and

in response to the change in the data transfer, changing a manner in which the power control commands are to be sent to the first party by the second party to be in accordance with the changed data transfer,

wherein when the changed data transfer relates to a decreased transmission rate of the first party, the second party will decrease a frequency of power control commands to be sent to the first party and, correspondingly, when the changed data transfer relates to an increased transmission rate, the second party will increase the frequency of power control commands.

4. (Previously Presented) A method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to a radio connection and during operation between them either party may send a power control command, which will change the transmission power of the other party, the method comprising:

identifying a change in data transfer of the first party by the second party; and

in response to the change in the data transfer, changing a manner in which the power control commands are to be sent to the first party by the second party to be in accordance with the changed data transfer,

wherein the power control command is formed of a plurality of bits and when the changed data transfer relates to a decreased transmission rate of the first party, the second party will shorten a length of the power control command and, correspondingly, when the changed data transfer relates to an increased transmission rate, the second party will extend the length of the power control command.

Claims 5-7 (Canceled).

8. (Previously Presented) A method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to a radio connection and during operation between them either party may send a power control command, which will change the transmission power of the other party, the method comprising:

identifying a change in data transfer of the first party by the second party; and
in response to the change in the data transfer, changing a manner in which the power control commands are to be sent to the first party by the second party to be in accordance with the changed data transfer,

wherein the power control commands are transmitted at first and second transfer rates, the second transfer rate being lower than the first transfer rate, of which the second transfer rate is used when the transmission of the first party is in a DTX state.

Claims 9-10 (Canceled).

11. (Previously Presented) A method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to a radio connection and during operation between them either party may send a power control command, which will change the transmission power of the other party, the method comprising:

identifying a change in data transfer of the first party by the second party; and
in response to the change in the data transfer, changing a manner in which the power control commands are to be sent to the first party by the second party to be in accordance with the changed data transfer,

wherein the manner in which the power control commands are to be sent in one direction is changed in reverse proportion to a load of the opposite transfer direction.

Claims 12-13 (Canceled).

14. (Previously Presented) A method of operating a base station in a digital radio link, said base station having a radio connection with a personal station, comprising:

identifying a change in amount of traffic received from said personal station;

determining a frequency of transmission of a power control command based on said change in the amount of traffic; and

transmitting said power control command to said personal station in accordance with said frequency of transmission.

15. (Previously Presented) The method of claim 14, wherein said identifying said change in the amount of traffic comprises at least one of

identifying a change to a DTX state,

identifying an information transfer rate change,

identifying an asymmetric data transfer, and

identifying no data transmissions being received.

16. (Previously Presented) The method of claim 14, wherein said determining said frequency of transmission of said power control command includes negotiating with said personal station to change said frequency of transmission of said power control command.

17. (Previously Presented) The method of claim 14, wherein said determining said frequency of transmission of said power control command includes determining said frequency of transmission based on a change in frequency of received power control commands from said personal station.

18. (Previously Presented) The method of claim 14, wherein said identifying includes receiving a request from said personal station to change transmission between said personal station and a base station.

19. (Previously Presented) A method of operating a personal station in a digital radio link, said personal station having a radio connection with a base station, comprising:

identifying a change in amount of traffic received from said base station;

determining a frequency of transmission of a power control command based on said change in the amount of traffic; and

transmitting said power control command to said base station in accordance with said frequency of transmission.

20. (Previously Presented) The method of claim 19, wherein said identifying said change in amount of traffic comprises at least one of

identifying a change to a DTX state,

identifying an information transfer rate change,

identifying an asymmetric data transfer, and
identifying no data transmissions being received.

21. (Previously Presented) The method of claim 19, wherein said determining said frequency of transmission of said power control command includes negotiating with said base station to change said frequency of transmission of said power control command.

22. (Previously Presented) The method of claim 19, includes receiving information from said base station for determining said frequency of transmission.

23. (Previously Presented) The method of claim 19, wherein said identifying includes sending a request to said base station to change transmission between said base station and said personal station.

24. (Canceled).

25. (Previously Presented) A method of operating a personal station to control transmission of a power control command in a digital radio link, said personal station having a radio connection with a base station, comprising:

identifying an absence of traffic received from said base station;

negotiating with said base station to determine a frequency of transmission of said power control command; and

transmitting said power control command to said base station in accordance with said frequency of transmission.

Claims 26-29 (Canceled).

30. (Previously Presented) A base station for having a radio connection with a personal station in a digital radio link, said base station configured to:

identify a change in amount of traffic received from said personal station;

determine a frequency of transmission of a power control command based on said change in the amount of traffic; and

transmit said power control command to said personal station in accordance with said frequency of transmission.

31. (Previously Presented) The base station of claim 30, wherein said base station is configured to identify said change in the amount of traffic by identifying at least one of the following:

a change to a DTX state,

an information transfer rate change,

an asymmetric data transfer, and

no data transmissions being received.

32. (Previously Presented) The base station of claim 30, wherein said base station is configured to determine said frequency of transmission of power control commands by

negotiating with said personal station to change said frequency of transmission of said power control command.

33. (Previously Presented) The base station of claim 30, wherein said base station is configured to determine said frequency of transmission of said power control command by determining said frequency of transmission based on a change in frequency of received power control commands from said personal station.

34. (Previously Presented) The base station of claim 30, wherein said base station is configured to identify said change by receiving a request from said personal station to change transmission between said personal station and said base station.

35. (Previously Presented) A personal station for having a radio connection with a base station in a digital radio link, said personal station configured to:

identify a change in amount of traffic received from said base station;

determine a frequency of transmission of a power control command based on said change in the amount of traffic; and

transmit said power control command to said base station in accordance with said frequency of transmission.

36. (Previously Presented) The personal station of claim 35, wherein said personal station is configured to identify said change in the amount of traffic by identifying at least one of the following:

a change to a DTX state,
an information transfer rate change,
an asymmetric data transfer, and
no data transmissions being received.

37. (Previously Presented) The personal station of claim 35, wherein said personal station is configured to determine said frequency of transmission of said power control command by negotiating with said base station to change said frequency of transmission of said power control command.

38. (Previously Presented) The personal station of claim 35, wherein said personal station is configured to determine said frequency of transmission of said power control command by receiving information from said base station for determining said frequency of transmission.

39. (Previously Presented) The personal station of claim 35, wherein said personal station is configured to identify said change by sending a request to said base station to change transmission between said base station and said personal station.

40. (Canceled).

41. (Previously Presented) A personal station for having a radio connection with a base station and for controlling transmission of a power control command in a digital radio link, said personal station configured to:

identify an absence of traffic received from said base station;

negotiate with said base station to determine a frequency of transmission of said power control command; and

transmit said power control command to said base station in accordance with said frequency of transmission.

Claims 42-45 (Canceled).

46. (New) A method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to a radio connection and during operation between them either party, hereinafter a first party, may send a power control command, which will change the transmission power of the other party, herein after a second party, the method comprising:

identifying a new transmission rate of the first party by the second party;

in response to the new transmission rate, changing a manner in which the power control commands are to be sent to the first party by the second party to be in accordance with the new transmission rate; and

the second party changing the reception generation of its own power control command to be in accordance with the new transmission rate.